

FEB 16 2006

Phytologia (Dec 2005) 87(3)

GARDEN LIBRARY

139

**NEW COMBINATIONS IN THE GENUS *VACHELLIA*
(FABACEAE: MIMOSOIDEAE) FROM THE NEW WORLD.****David S. Seigler¹ and John E. Ebinger²**¹Department of Plant Biology, University of Illinois, Urbana, Illinois 61801, U.S.A. E-mail: seigler@life.uiuc.edu²Emeritus Professor of Botany, Eastern Illinois University, Charleston, Illinois, 61920, U.S.A. E-mail: jebinger@eiu.edu**ABSTRACT**

Based on the evidence that the genus *Acacia* s.l. is polyphyletic, morphological and genetic differences separating the subgenera of *Acacia* s.l., along with the change to a new conserved type for the genus necessitate the following new combinations: *Vachellia acutifera* (Benth.) Seigler & Ebinger, *V. albicorticata* (Burkart) Seigler & Ebinger, *V. allenii* (D. H. Janzen) Seigler & Ebinger, *V. anagadensis* (Britton) Seigler & Ebinger, *V. aroma* (Gillies ex Hook. & Arn.) Seigler & Ebinger, *V. barahonensis* (Urb. & Ekman) Seigler & Ebinger, *V. belairioides* (Urb.) Seigler & Ebinger, *V. biaculata* (S. Watson) Seigler & Ebinger, *V. bilimekii* (J. Macbr.) Seigler & Ebinger, *V. brandegeana* (I. M. Johnst.) Seigler & Ebinger, *V. bucheri* (Marie-Victorin) Seigler & Ebinger, *V. californica* (Brandegee) Seigler & Ebinger, *V. campechiana* (Mill.) Seigler & Ebinger, *V. campechiana* forma *houghii* (Britton & Rose) Seigler & Ebinger, *V. caurina* (Barneby & Zanoni) Seigler & Ebinger, *V. caven* (Molina) Seigler & Ebinger, *V. X cedilloi* (Rico Arce) Seigler & Ebinger, *V. chiapensis* (Saff.) Seigler & Ebinger, *V. choriophylla* (Benth.) Seigler & Ebinger, *V. collinsii* (Saff.) Seigler & Ebinger, *V. constricta* (Benth.) Seigler & Ebinger, *V. cookii* (Saff.) Seigler & Ebinger, *V. cornigera* (L.) Seigler & Ebinger, *V. cucuyo* (Barneby & Zanoni) Seigler & Ebinger, *V. curvifructa* (Burkart) Seigler & Ebinger, *V. daemon* (Ekman & Urb.) Seigler & Ebinger, *V. gentlei* (Standley) Seigler & Ebinger, *V. X gladiata* (Saff.) Seigler & Ebinger, *V. glandulifera* (S. Watson) Seigler & Ebinger, *V. globulifera* (Saff.) Seigler & Ebinger, *V. hindsii* (Benth.)

Seigler & Ebinger, *V. insulae-iacobi* (L. Riley) Seigler & Ebinger, *V. janzenii* (Ebinger & Seigler) Seigler & Ebinger, *V. macracantha* (Humb. & Bonpl. ex Willd.) Seigler & Ebinger, *V. mayana* (Lundell) Seigler & Ebinger, *V. melanoceras* (Beurl.) Seigler & Ebinger, *V. oviedoensis* (R. García & M. Mejía) Seigler & Ebinger, *V. pacensis* (Rudd & Carter) Seigler & Ebinger, *V. pennatula* (Schltdl. & Cham.) Seigler & Ebinger, *V. polypyrgenes* (Greenm.) Seigler & Ebinger, *V. pringlei* (Rose) Seigler & Ebinger, *V. rigidula* (Benth.) Seigler & Ebinger, *V. roigi* (León) Seigler & Ebinger, *V. rorudiana* (Christophersen) Seigler & Ebinger, *V. ruddiae* (D. H. Janzen) Seigler & Ebinger, *V. schaffneri* (S. Watson) Seigler & Ebinger, *V. schottii* (Torr.) Seigler & Ebinger, *V. sphaerocephala* (Schltdl. & Cham.) Seigler & Ebinger, *V. X standleyi* (Saff.) Seigler & Ebinger, *V. tortuosa* (L.) Seigler & Ebinger, *V. vernicosa* (Britton & Rose) Seigler & Ebinger, *V. villaregalis* (McVaugh) Seigler & Ebinger, and *V. zapaensis* (Urb. & Ekman) Seigler & Ebinger. The following new combinations and new statuses are also necessary: *V. aroma* var. *huarango* (Ruiz & J. Macbr.) Seigler & Ebinger, *V. bravoensis* (Isely) Seigler & Ebinger, *V. farnesiana* var. *minuta* (M. E. Jones) Seigler & Ebinger, *V. farnesiana* var. *pinetorum* (F. J. Herm.) Seigler & Ebinger, *V. guanacastensis* (Clarke, Seigler, & Ebinger) Seigler & Ebinger, and *V. pennatula* var. *parvicephala* (Seigler & Ebinger) Seigler & Ebinger. Two other species that we recognize had previously been transferred to the genus by others: *Vachellia astringens* (Gillies in Hook. et Arn.) Speg. and *V. farnesiana* (L.) Wight & Arn.

KEY WORDS *Acacia* sensu lato, Fabaceae, Mimosoideae, *Vachellia*.

Recent morphological and genetic studies have shown that the genus *Acacia* s.l. is polyphyletic. Also, there has been an accumulation of data derived from molecular studies that has led to a better understanding of the probable relationships within the genus *Acacia* s.l., as well as the position of the genus within the Mimosoideae (Maslin 1988, Chappill and Maslin 1995, Clarke et al. 2000, Maslin et al. 2000, 2003, Miller and Bayer 2000, 2001, 2003, Luckow et al. 2003, Miller et al. 2003, Murphy et al. 2003). These studies suggest that the genus *Acacia* s.l. should be separated into as many as five

genera. These genera, for the most part, correspond to the four currently recognized infrageneric taxa of *Acacia*, namely the former subgenus *Acacia*, subgenus *Aculeiferum* sect. *Aculeiferum* and sect. *Filicinae*, and subgenus *Phyllodineae*, and a small group of North and Central America species related to *Acacia coulteri* Benth.

The genus *Acacia* s.l., has recently been retypified as a result of endorsement of a proposal by Orchard and Maslin (2003); the type was changed from *Acacia nilotica* to *Acacia penninervis* (subgenus *Phyllodineae*) (McNeill, personal communication). The morphological and genetic differences separating the subgenera of *Acacia* s.l., along with the change to a new type for the genus necessitate the following new combinations. The earliest valid name available for members of *Acacia* subgenus *Acacia* is *Vachellia* Wight & Arnott (1834). This name honors Reverend G. H. Vachell who collected extensively in China.

Of these five groups, the former subgenus *Acacia* (series *Gummiferae*) consists of approximately 163 species, 60 species in the Americas, 73 species in Africa, 36 species in Asia (including ca. 15 that are also found in Africa), and 9 species in Australia (Maslin et al., 2003; Orchard and Maslin, 2003; <http://www.worldwidewattle.com>). Members of this subgenus can be separated from other members of the genus *Acacia* s.l. by a combination of characters: the presence of stipular spines, the absence of prickles, the presence of an involucre on the peduncle, bipinnately compound leaves, colporate pollen apertures, pollen columellae, and the smooth pollen exine ornamentation. Descriptions of most New World species of this subgenus are available in publications completed by the authors and their students during the past 20 years (Clarke et al. 1989, 1990, 2006, Ebinger et al. 2000, 2002, Lee et al. 1989, Seigler and Ebinger 1988, 1995). Complete synonymies are provided below.

In accord with the ICBN and an anonymous editor, we are using variety for all subspecific categories (Turner and Nesom, 2000)

VACHELLIA Wight & Arn., Prodr. fl. Ind. orient. 1: 272. 1834. –
TYPE: *Vachellia farnesiana* (L.) Wight & Arn., based on *Mimosa farnesiana* L.. Sp. Pl. 521. 1753.

VACHELLIA ACUIFERA (Benth.) Seigler & Ebinger, comb. nov.
Basionym: *Acacia acuifera* Benth., London J. Bot. 1: 496. 1842.
Bahamia acuifera (Benth.) Britton & Rose, N. Amer. Fl. 23: 86. 1928. – TYPE: BAHAMAS. *W. Swainson s.n.* (holotype: K).

Pithecellobium micrantha Benth., Trans. Linn. Soc. London 30: 589. 1875. *Cojoba micrantha* (Benth.) Britton & Rose, N. Amer. Fl. 23: 30. 1928. – TYPE: DOMINICAN REPUBLIC. Santo Domingo, 1852, *R. Schomburgk* 149 (holotype: B, destroyed; isotypes: F fragment and photo, P, NY fragment). NOTE: For additional information, see Rico-Arce 1991 and Barneby 1992).

VACHELLIA ALBICORTICATA (Burkart) Seigler & Ebinger, comb. nov. Basionym: *Acacia albicorticata* Burkart, Darwiniana 7: 504. 1947. – TYPE: ARGENTINA. SALTA: Tartagal, alt. 500 m, 29 Oct 1924, *R. Schreiter* 3355 (holotype: SI; isotype: LIL).

VACHELLIA ALLENII (D. H. Janzen) Seigler & Ebinger, comb. nov. Basionym: *Acacia allenii* D.H. Janzen, Smithsonian Contr. Bot. 13: 53. 1974. – TYPE: COSTA RICA. PUNTARENAS: Osa Peninsula, bank of tributary of Rio Agua Buena, 3.5 mi. SW of Rincón, 9 Mar 1967, *D. H. Janzen* 1769 (holotype: US; isotypes: F, GH, K, MEXU, MICH, MO, NY, UC).

VACHELLIA ANEGADENSIS (Britton) Seigler & Ebinger, comb. nov. Basionym: *Acacia anegadensis* Britton, Mem. New York Bot. Gard. 6: 572. 1916. *Fishlockia anegadensis* (Britton) Britton & Rose, N. Amer. Fl. 23: 91. 1928. – TYPE: BRITISH VIRGIN ISLANDS. Anegada, rocky plains, The Settlement, 19-20 Feb 1913, *N. L. Britton & W. C. Fishlock* 990 (holotype: NY; isotypes: F, GH, NY, US).

VACHELLIA AROMA (Gillies ex Hook. & Arn.) Seigler & Ebinger,
comb. nov. Basionym: *Acacia aroma* Gillies ex Hook. & Arn.,
Bot. Misc. 3: 206. 1833. *Acacia lutea* (Mill.) Britton var. *aroma*
(Gillies ex Hook. & Arn.) Kuntze, Revis. gen. pl. 3(2): 47. 1898.
Vachellia lutea (Mill.) Speg. var. *aroma* (Gillies ex Hook. & Arn.)
Speg., Bol. Acad. Nac. Ci. Córdoba 26: 307. 1924. *Vachellia*
lutea (Mill.) Speg. f. *aroma* (Gillies ex Hook. & Arn.) Speg., Bol.
Acad. Nac. Ci. Córdoba 26: 313. 1924. – TYPE: ARGENTINA.
a little way south of San Juan, Dec 1823, J. Gillies s.n. (holotype:
K).

VACHELLIA AROMA (Gillies ex Hook. & Arn.) Seigler & Ebinger
var. **AROMA**

Acacia moniliformis Griseb., Abh. Königl. Ges. Wiss. Göttingen 19:
136. 1874. *Acacia lutea* (Mill.) Britton var. *moniliformis*
(Griseb.) Kuntze, Rev. gen. pl. 3(2): 47. 1898 (as *monoliformis*).
Vachellia lutea (Mill.) Speg. var. *moniliformis* (Griseb.) Speg.,
Bol. Acad. Nac. Ci. Córdoba 26: 303. 1924. *Vachellia lutea*
(Mill.) Speg. f. *moniliformis* (Griseb.) Speg., Bol. Acad. Nac. Ci.
Córdoba 26: 312. 1924. – TYPE: ARGENTINA. TUCUMÁN:
La Cruz, 20-24 Apr 1872, T. G. Lorentz 190 (holotype: GOET).

Acacia michelii Rusby, Mem. Torrey Bot. Club 6: 28. 1896. – TYPE:
BOLIVIA. vic. Cochabamba, 1891, M. Bang 1095 (holotype: K;
isotype: NY).

Acacia aroma Gillies ex Hook. & Arn. var. *cochlearis* Griseb., Abh.
Königl. Ges. Wiss. Göttingen 24: 122. 1879. – TYPE:
ARGENTINA. CÓRDOBA: north of San Javier, 18 Mar 1876, T.
G. Hieronymus 558 (holotype: GOET).

Vachellia lutea (Mill.) Speg. f. *oocephala* Speg., Bol. Acad. Nac. Ci.
Córdoba 26: 312. 1924. – TYPE: none cited.

Vachellia lutea (Mill.) Speg. f. *thlipsacantha* Speg., Bol. Acad. Nac.
Ci. Córdoba 26: 312. 1924. – TYPE: none cited.

Vachellia lutea (Mill.) Speg. var. *aroma* (Gillies ex Hook. & Arn.) Speg. f. *leptocarpa* Speg., Bol. Acad. Nac. Ci. Córdoba 26: 305. 1924. – TYPE: none cited.

Vachellia lutea (Mill.) Speg. var. *aroma* (Gillies ex Hook. & Arn.) Speg. f. *pachycarpa* Speg., Bol. Acad. Nac. Ci. Córdoba 26: 307. 1924. – TYPE: none cited.

VACHELLIA AROMA (Gillies ex Hook. & Arn.) Seigler & Ebinger var. **HUARANGO** (Ruiz ex J. Macbr.) Seigler and Ebinger, **comb. nov.** Basionym: *Acacia huarango* Ruiz ex J. Macbr., Publ. Field Mus. Nat. Hist., Bot. Ser. 8: 90. 1930. *Acacia aroma* Gillies ex. Hook. & Arn. var. *huarango* (Ruiz ex J. Macbr.) Ebinger, Seigler and Clarke, Syst. Bot. 25: 602. 2000. – TYPE: PERU. HUANUCO: near Huánuco, low spreading shrub, *Ruiz & Pavón s.n.* [lectotype, designated by Macbride (1943): F].

VACHELLIA ASTRINGENS (Gillies) Speg., Bol. Acad. Nac. Ci. Córdoba 26: 278. 1924. *Prosopis astringens* Gillies in Hook. & Arn. Bot. Misc. 3: 204. 1833. *Acacia atramentaria* Benth., London J. Bot. 1: 392. 1842. *Acacia farnesiana* γ *atramentaria* (Benth.) Kuntze, Revis. gen. pl. 3(2): 47. 1898. (based on same type). – TYPE: ARGENTINA. Mendoza and San Juan, *J. Gillies s.n.* (holotype: GL; isotype: K). NOTE: Not *Acacia astringens* A. Cunn. ex G. Don (1832), a species with phyllodes native to Australia and a synonym of *Acacia falciformis* DC. (Maslin, 2001a). Not *Acacia adstringens* Mart. in Spix and Martius (1828), an unarmed species of legume from Brazil that is not an *Acacia*.

Acacia prosopoma O. Schnyd., Anales Soc. Ci. Argent. 3: 152. 1877. – TYPE: none cited, from Argentina, Mendoza, Córdoba.

VACHELLIA BARAHONENSIS (Urb. & Ekman) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia barahonensis* Urb. & Ekman in Urb., Ark. Bot. 22a (8): 29. 1928. – TYPE: DOMINICAN REPUBLIC. BARAHONA: between Coueve-en-

Haut and Trujín, quaternary calcareous soil, 22 Sep 1926, E. L. Ekman H7043 (holotype: B destroyed; isotype: S).

VACHELLIA BELAIRIOIDES (Urb.) Seigler & Ebinger, comb. nov. Basionym: *Acacia belairioides* Urb., Symb. antill. 9: 439. 1928. *Feracacia belairioides* (Urb.) Britton and León, N. Amer. Fl. 23: 87. 1928. – TYPE: CUBA. HOLGUÍN: Holguín, in carrascas (serpentine barrens) toward El Paraiso, 26 Aug 1916, E. L. Ekman 7589 (holotype: S; isotypes: MT, NY).

VACHELLIA BIACICULATA (S. Watson) Seigler & Ebinger, comb. nov. Basionym: *Acacia biaciculata* S. Watson, Proc. Amer. Acad. Arts 21: 452. 1886. *Acaciopsis biaciculata* (S. Watson) Britton & Rose, N. Amer. Fl. 23: 96. 1928. – TYPE: MEXICO. CHIHUAHUA: on sandy plains near Chihuahua, 20 Aug 1885, C. G. Pringle 662 (holotype: US; isotypes: F, NY, VT).

VACHELLIA BILIMEKII (J. Macbr.) Seigler & Ebinger, comb. nov. Basionym: *Acacia bilimekii* J. Macbr., Contr. Gray Herb. 59: 6. 1919. *Acaciopsis bilimekii* (J. Macbr.) Britton & Rose, N. Amer. Fl. 23: 94. 1928. – TYPE: MEXICO. MORELOS: Cuernavaca, 10 Jan 1866, D. Bilimek 128 (holotype: GH).

Acacia ambigua Rose, Contr. U. S. Natl. Herb. 8: 31. 1903. – TYPE: MEXICO. PUEBLA: on the hills above Matamoras, where it is common, 26 Jun 1899, J. N. Rose & W. Hough 4698 (holotype: US). NOTE: Not *Acacia ambigua* Hoffmannsegg (1826), which is based on a sterile specimen from Senegal, the identity of which is unknown (Ross 1979). Not *Acacia ambigua* Vogel (1836), a species from the Caribbean with prickles and lacking stipular spines, which is a synonym of *Acacia vogeliana* Steud. (Britton and Rose 1928).

Acacia sericocarpa Rose, Contr. U. S. Natl. Herb. 8: 300. 1905. – TYPE: MEXICO. PUEBLA: on the hills above Matamoras, where it is common, 26 Jun 1899, J. N. Rose & W. Hough 4698

(holotype: US). NOTE: Not *Acacia sericocarpa* Fitzgerald (1904), a phyllodinous acacia species from Western Australia (Maslin, 2001b).

VACHELLIA BRANDEGEANA (I. M. Johnston) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia brandegeana* I. M. Johnston., Contr. Gray Herb. 75: 27. 1925. *Acaciopsis brandegeana* (I. M. Johnston.) Britton & Rose, N. Amer. Fl. 23: 94. 1928. – TYPE: MEXICO. BAJA CALIFORNIA SUR: Agua Verde Bay, 26 May 1921, *I. M. Johnston* 3881 (holotype GH; isotypes: A, F, MO, NY, UC, US).

Pithecollobium acuminatum M. E. Jones, Contr. W. Bot. 18: 38. 1933. – TYPE: MEXICO. BAJA CALIFORNIA SUR: above Primiera Aqua near Loreto, 20 Oct 1930, *M. E. Jones* 27255 (holotype: RSA).

VACHELLIA BRAVOENSIS (Isely) Seigler & Ebinger, **comb. et stat. nov.** Basionym: *Acacia schaffneri* (S. Watson) F. J. Herm. var. *bravoensis* Isely, Sida 3: 383. 1969. – TYPE: UNITED STATES. TEXAS: San Patricio Co., 7 miles S of Taft in clay loam soil, 29 Mar 1950, *F. B. Jones* 100 (holotype: SMU).

VACHELLIA BUCHERI (Marie-Victorin) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia bucheri* Marie-Victorin, Contr. Inst. Bot. Univ. Montréal 49: 57. 1945. – TYPE: CUBA. ORIENTE: Moa, sur la plateforme littorale serpentinite-limonitique, 27-31 May 1943, *F. Marie-Victorin & Bro. Clément* 21804 [holotype: MT, F photo; isotypes: F, HAC (Alvarez and Oliver 1991), MO, NY].

VACHELLIA CALIFORNICA (Brandegee) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia californica* Brandegee, Proc. Calif. Acad. Sci. II. 3: 221. 1892. *Acacia pringlei* Rose subsp. *californica* (Brandegee) Lee, Seigler & Ebinger, Syst. Bot. 14: 99. 1989. *Acaciopsis californica* (Brandegee) Britton & Rose, N. Amer. Fl. 23: 96. 1928. – TYPE: MEXICO. BAJA CALIFORNIA SUR: La Palma, 31 Mar 1892, *T. S. Brandegee* s.n. [lectotype, designated by Lee et al. (1989): UC].

Acacia sonorensis Rose, Contr. U. S. Nat. Herb. 8:31. 1903.
Acaciopsis sonorensis (Rose) Britton & Rose, N. Amer. Fl. 23: 95. 1928. – TYPE: MEXICO. SONORA: near Guaymas, 5-11 Jun 1897, J. N. Rose 1247 (holotype: US).

VACHELLIA CAMPECHIANA (Mill.) Seigler & Ebinger, comb. nov. Basonym: *Mimosa campeachiana* Mill. Gard. dict. ed 8, no. 20. 1768. *Poponax campechiana* (Mill.) Britton & Rose, N. Amer. Fl. 23: 90. 1928. *Acacia cymbispina* Sprague & Riley in Riley, Kew Bull. 1923: 394. 1923 (based on the same type). *Poponax cymbispina* (Sprague & Riley) Britton & Rose, N. Amer. Fl. 23: 90. 1928. *Acacia milleriana* Standl. Jour. Arnold Arb. 11: 29. 1928. (Based on the same type). (Rudd 1966, Seigler & Ebinger 1988). – TYPE: MEXICO. VERACRUZ: Veracruz, 1731, *W. Houstoun* s.n. (holotype: BM). NOTE: Not *Acacia campechiana* Schenck (1913), which is considered a synonym of the ant-acacia species *Acacia cornigera* (L.) Willd. by Seigler and Ebinger (1995). Note: We have used the spelling *Vachellia campechiana*.

VACHELLIA CAMPECHIANA (Mill.) Seigler & Ebinger f. **CAMPECHIANA**

Acacia cochliacantha Humb. & Bonpl. ex Willd., Sp. Pl. 4:1080. 1806.
Mimosa cochliacantha (Humb. & Bonpl. ex Willd.) Poir. in Lam. Dict. Suppl. 1: 78. 1810. – TYPE: MEXICO. without exact locality [erroneously given as Guayaquil, Ecuador (Rudd 1966)], *Humboldt & Bonpland* s.n. (holotype: B destroyed, F photo, M0 photo).

Acacia cymbacantha Zucc. ex Benth., Trans. Linn. Soc. London 30: 501. 1875. – TYPE: MEXICO. *W. Karwinski* s.n. (holotype: M). NOTE: *Acacia cymbacantha* Zucc. ex Benth. is listed in synonymy in the original description of *Acacia cochliacantha* with the note “may be the same species with very much larger spines, at least 1 in. long and 1/2 in. broad”.

Poponax attenuata Britton & Rose, N. Amer. Fl. 23: 90. 1928. — TYPE: MEXICO. PUEBLA: Río de Santa Lucia, in the vicinity of San Luis Tultitlanapa, near Oaxaca, Aug 1908, C. A. Purpus 3050 (holotype: NY).

VACHELLIA CAMPECHIANA (Mill.) Seigler & Ebinger f. **HOUGHII** (Britton & Rose) Seigler & Ebinger, **comb. nov.** Basionym: *Poponax houghii* Britton & Rose, N. Amer. Fl. 23: 90. 1928. *Acacia cochliacantha* Humb. & Bonpl. ex Willd. f. *houghii* (Britton & Rose) Seigler & Ebinger, Syst. Bot. 13: 14. 1988. — TYPE: MEXICO. OAXACA: Tomellin Canon, 23 Jun 1899, J. N. Rose & W. Hough 4669 (holotype: NY; isotype US).

VACHELLIA CAURINA (Barneby & Zanoni) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia caurina* Barneby & Zanoni, Moscosoa 5: 20. 1989. — TYPE: HAITI. NORD-OUEST. sprawling shrub on rocks, arid, steep mountain slope west of bay, vicinity of Port à l'Écu, 15-17 Mar 1929, E. C. Leonard & G. M. Leonard 13863 (holotype: US; isotypes: A, GH, NY).

VACHELLIA CAVEN (Molina) Seigler & Ebinger, **comb. nov.** Basionym: *Mimosa caven* Molina, Sag. stor. nat. Chili, ed 1, 174. 1782. *Mimosa cavenia* Molina, Eassai hist. nat. Chili, 338. 1789. *Acacia caven* (Molina) Molina, Sag. stor. nat. Chili, 2nd. ed., 163, 299. 1810. *Acacia cavenia* (Molina) Hook. & Arn., Misc. Bot. 3: 206. 1833. *Acacia farnesiana* (L.) Willd. β *cavenia* (Molina) Kuntze, Revis. gen. pl. 3(2): 47. 1898. *Acacia farnesiana* (L.) Willd. var. *cavenia* (Hook. & Arn.) Arechav., Anales Mus. Nac. Montevideo 1: 436. 1901. *Vachellia farnesiana* (L.) Wight & Arn. f. *cavenia* (Molina) Speg., Bol. Acad. Nac. Ci. Córdoba 26: 297. 1923. *Acacia farnesiana* (L.) Willd. f. *cavenia* (Hook. & Arn.) E. C. Clos., Bol. Minist. Agric. Nac. (Argentina) 28: 455. 1930. — TYPE: CHILE. Raneagna, Oct 1828, C. G. Bertero s.n. [lectotype, designated by Aronson (1992): SG0]. NOTE: We interpret the specific epithet *cavenia* to be a misspelling.

- ✓*Acacia adenopa* Hook. & Arn., Bot. Misc. 3: 206. 1833. – TYPE: Islands of the Uruguay, *J. Tweedie s.n.* (holotype: K).
- ✓*Acacia aromatica* Poepp., Mart., Fl. Bras. 15: 395. 1879. – TYPE: CHILE. Valparaiso, *E. Poeppig* 177 [lectotype, designated by Ebinger et al. (2000): W].
- ✓*Acacia farnesiana* (L.) Willd. var. *brachicarpa* Kuntze, Revis. gen. pl. 1: 156. 1891. – TYPE: none cited, from Argentina, Córdoba.
- ✓*Acacia farnesiana* (L.) Willd. γ *heterocarpa* Kuntze, Revis. gen. pl. 3(2): 47. 1898. – TYPE: ARGENTINA. CÓRDOBA: Dec 1891, *O. Kuntze s.n.* [lectotype, designated by Ebinger et al. (2000): MO].
- ✓*Acacia caven* (Molina) Molina var. *dehiscens* Burkart ex Ciald., Darwiniana 25: 76. 1984. – TYPE: ARGENTINA. CÓRDOBA: Ascochinga, 22 Sep 1936, *E. G. Nicora* 962 (holotype: SI).
- ✓*Acacia caven* (Molina) Molina var. *microcarpa* (Speg.) Burkart ex Ciald., Darwiniana 25: 77. 1984. *Vachellia farnesiana* (L.) Wight & Arn. f. *microcarpa* Speg., Bol. Acad. Nac. Ci. Córdoba 26: 301. 1924. – TYPE: ARGENTINA. FORMOSA: Depto. Patino, Fortin Soledad, *A. Krapovickas* 1283 [lectotype, designated by Cialdella (1984): SI; isotype: LIL].
- ✓*Acacia caven* (Molina) Molina var. *stenocarpa* (Speg.) Burkart ex Ciald., Darwiniana 25: 78. 1984. *Vachellia farnesiana* (L.) Wight & Arn. f. *stenocarpa* Speg., Bol. Acad. Nac. Ci. Córdoba 26: 301. 1924. – TYPE: ARGENTINA. MISIONES: Depto. Candelaria, Santa Ana, *A. Burkart* 14734 [lectotype, designated by Cialdella (1984): SI].
- ✓*Acacia caven* (Molina) Molina var. *sphaerocarpa* Burkart ex Aronson, Ann. Missouri Bot. Gard. 79: 964. 1992. – TYPE: ARGENTINA. CORRIENTES: ca. 27° 27'S, 58° 46'W, 60 m. "alrededores de la ciudad de Corrientes, antiguo camino a Matadero, 50 m de la ruta,

17 Feb 1989, S. G. Tressens & A. Radovancich 3539 (holotype: K; isotype: CTES).

✓*Acacia caven* (Molina) Molina var. *macrocarpa* Aronson, Ann. Missouri Bot. Gard. 79: 965. 1992. – TYPE: ARGENTINA. SALTA: Salta, Chicoana, El Carril, 19 Oct 1948, A. Burkart 17577 (holotype: SI).

✓*Vachellia farnesiana* (L.) Wight & Arn. f. *brachypoda* Speg., Bol. Acad. Nac. Ci. Córdoba 26: 301. 1924. – TYPE: not cited, from Argentina, Buenos Aires Prov., San Fernanda, Gualeguaychu, Ibicuy y chaco santefecino.

VACHELLIA X CEDILLOI (L. Rico Arce) Seigler & Ebinger, comb. nov. Basionym: *Acacia x cedilloi* L. Rico Arce, Acta Bot. Mex. 26: 7. 1994. – TYPE: MEXICO. QUINTANA ROO: km 6.5 de la carretera Vigia Chico-F. Carrillo Puerto, selva mediana subperennifolia, alt. 8 m, 9 Apr 1986, R. Villanueva 714 (holotype: MEXU; isotypes: CIQRO, XAL).

✓**VACHELLIA CHIAPENSIS** (Saff.) Seigler & Ebinger, comb. nov. Basionym: *Acacia chiapensis* Saff., J. Wash. Acad. Sci. 5: 356. 1915. – TYPE: MEXICO. CHIAPAS: near San Fernando, between Tuxtla and Chicoasén, 12 Jan 1907, G. N. Collins 164 (holotype: US, F photo).

✓**VACHELLIA CHORIOPHYLLA** (Benth.) Seigler & Ebinger, comb. nov. Basionym: *Acacia choriophylla* Benth., London J. Bot. 1: 495. 1842. ✓*Lucaya choriophylla* (Benth.) Britton & Rose, N. Amer. Fl. 23: 87. 1928. – TYPE: BAHAMAS: *W. Swainson s.n.* (holotype: K).

✓**VACHELLIA COLLINSII** (Saff.) Seigler & Ebinger, comb. nov. Basionym: *Acacia collinsii* Saff., Science N.S. 31: 677. 1910. ✓*Myrmecodendron collinsii* (Saff.) Britton & Rose, N. Amer. Fl. 23: 92. 1928. – TYPE: MEXICO. CHIAPAS: between Chicoasén and San Fernandino, 1,005 ft., 13 Jan 1907, G. N.

Collins & C. B. Doyle 180 (holotype: US, F photo). NOTE: Safford (1910) listed G. N. Collins as the only collector, and cited 14 Jan. 1907 as the date collected. On the label of the type specimen G. N. Collins and C. B. Doyle are listed as the collectors and 13 Jan. 1907 is given as the date of the collection.

✓*Acacia glutea* Ram. Goyena, Fl. Nicaraguense 1: 382. 1909. – TYPE: not cited. NOTE: Although the original description of Ramírez Goyena is in Spanish and no type is cited (Rico Arce, 2001), this species was described before either of these was required. Because this name is not used by most workers, is not supported by type material, nor is a designated herbarium extant, in order to contribute to nomenclatural stability, we have made a proposal to conserve the name of Safford (1910), which is widely used. If accepted, the name for this taxon must become *Vachellia collinsii* (Saff.) Seigler & Ebinger.

✓*Acacia costaricensis* Schenck, Repert. Spec. Nov. Regni Veg. 12: 361. 1913. ✓*Myrmecodendron costaricensis* (Schenck) Britton & Rose, N. Amer. Fl. 23: 93. 1928. – TYPE: COSTA RICA. ALAJUELA: Alajuela, alt. 900 m, 1896, J. D. Smith 6488 [lectotype, designated by Seigler and Ebinger (1995); S (B, destroyed); isotypes: BM, GH, K, MO].

✓*Acacia panamensis* Schenck, Repert. Spec. Nov. Regni Veg. 12: 362. 1913. – TYPE: PANAMA. ALAJUELA: *A. Koch* s.n. (holotype: B, destroyed).

✓*Acacia yucatanensis* Schenck, Repert. Spec. Nov. Regni Veg. 12: 361. 1913. – TYPE: MEXICO. YUCATÁN, 1895, G. F. Gaumer 353 [lectotype, designated by Seigler and Ebinger (1995); US (B, destroyed); isotypes: BM, GH, F, MO].

✓*Acacia nelsonii* Saff., J. Wash. Acad. Sci. 4: 363. 1914. – TYPE: MEXICO. GUERRERO: Acapulco, sea level, 30 Apr 1903, E. W. Nelson 7024 (holotype: US; isotypes: F, GH).

✓*Acacia penonomensis* Saff., J. Wash. Acad. Sci. 4: 363. 1914. – TYPE: PANAMA. COCLÉ: Penonomé, 50-1,000 ft., 23 Feb-22 Mar 1908, R. S. Williams 113 (holotype: NY, F photo, US fragment and photo; isotype: US).

VACHELLIA CONSTRICTA (Benth.) Seigler & Ebinger, comb. nov. Basionym: *Acacia constricta* Benth. in Gray, Pl. Wright. 1: 66. 1852. *Acaciopsis constricta* (Benth.) Britton & Rose, N. Amer. Fl. 23: 96. 1928. – TYPE: MEXICO. CHIHUAHUA: May-Oct 1849, C. Wright 162 (holotype: K; isotypes: GH, NY, US).

✓*Acacia constricta* Benth. var. *paucispina* Wooton & Standl., Bull. Torrey Bot. Club 36: 105. 1909. *Acaciopsis constricta* Benth. var. *paucispina* (Wooton & Standl.) Moldenke, Revista Sudamer. Bot. 4: 15. 1937. – TYPE: UNITED STATES. NEW MEXICO: Sierra Co., Animas Creek in the Black Range, alt. 1500 ft., 13 Jul 1904, O. B. Metcalfe 1123 (holotype: US).

✓*Mimosa arcuata* M. Martens & Galeotti, Bull. Acad. Roy. Sci. Bruxelles 10: 310. 1843. – TYPE: MEXICO. OAXACA: se trouve sur le flanc des montagnes calcaires et cactifères, à l'est de Tehuacan de las Grandas, vers 6,000 pieds. Fl. jaunes, H. Galeotti 3222 (holotype: BR; isotypes: G, K). (Rudd 1976-1982). NOTE: Not *Acacia arcuata* Sieber ex Sprengel (1826), a taxon with phyllodes that is a synonym of *Acacia melanoxylon* R. Br. (Cowan and Maslin, 2001). In response to the recent conservation of the type for *Acacia* with an Australian species, the necessity to transfer species of the former subgenus *Acacia* to the genus *Vachellia*, the fact that the name *Acacia constricta* Benth. has been used by most workers, because this name is widely employed in floras of both Mexico and the United States, and in order to contribute to nomenclatural stability, we have made a proposal to conserve the name of Bentham (1852). If accepted, the name for this taxon must become *Vachellia constricta* (Benth.) Seigler & Ebinger.

VACHELLIA COOKII (Saff.) Seigler & Ebinger, comb. nov.

Basionym: *Acacia cookii* Saff., Science N. S. 31: 677. 1910.

✓*Myrmecodendron cookii* (Saff.) Britton & Rose, N. Amer. Fl. 23: 93. 1928. – TYPE: GUATEMALA. ALTA VERAPAZ: Finca Trece Aguas, near Secanguim, alt. 300 m, 8 Mar 1907, G. P. Goll 102 (holotype: US).

✓*Acacia bucerophora* B. L. Rob., Proc. Amer. Acad. Arts 49: 502. 1913. – TYPE: BELIZE. Belize, about Toledo, 4 mi. from the coast and 5 miles from Punta Gorda, sea level, 29 Mar 1907, M. E. Peck 632 (holotype: GH, F fragment and photo, US fragment and photo; isotypes: F, K).

VACHELLIA CORNIGERA (L.) Seigler & Ebinger, comb. nov.

Basionym: *Mimosa cornigera* L., Sp. Pl. 520. 1753. ✓*Acacia cornigera* (L.) Willd., Sp. Pl. 4: 1080. 1806. ✓*Tauroceras cornigerum* (L.) Britton & Rose, N. Amer. Fl. 23: 86. 1928. –

TYPE: from a cultivated plant grown in the garden of George Clifford, between Haarlem and Leyden, Holland, collected by Linnaeus (No. 4) and bearing his label "*Mimosa cornigera*" presumably grown from Mexican seed (Rudd 1964). (holotype: BM, US fragment and photo).

✓*Acacia spadicigera* Schltdl. & Cham., Linnaea 5: 594. 1830. ✓*Tauroceras spadicigerum* (Schltdl. & Cham.) Britton & Rose, N. Amer. Fl. 23: 85. 1928. – TYPE: MEXICO. VERACRUZ: near La Laguna Verde, Mar 1928, C. Schiede & F. Deppe 685 [lectotype, designated by Seigler and Ebinger (1995): US fragment, (B, destroyed)].

✓*Acacia campecheana* Schenck, Repert. Spec. Nov. Regni Veg. 12: 361. 1913. – TYPE: MEXICO. CAMPECHE: *von Chrismar s.n.* (holotype: B, destroyed).

✓*Acacia cubensis* Schenck, Repert. Spec. Nov. Regni Veg. 12: 360. 1913. – TYPE: CUBA. N coast, 21 Apr 1863, C. Wright 2402 [lectotype, designated by Seigler and Ebinger (1995): US, (B,

destroyed); isotypes: G, GOET, HAL, JE, K, MO, US]. NOTE: A note on one herbarium sheet (JE) indicates that the seeds came from Martinique.

✓*Acacia interjecta* Schenck, Repert. Spec. Nov. Regni Veg. 12: 361. 1913. – TYPE: *Engler* 3870a [lectotype, designated by Seigler and Ebinger (1995): JE, (B, destroyed)]. NOTE: From material growing in the Singapore and Kew Botanical Gardens (Janzen 1974).

✓*Acacia nicoyensis* Schenck, Repert. Spec. Nov. Regni Veg. 12: 360. 1913. – TYPE: COSTA RICA. GUANACASTE: shore of the Gulf of Nicoya, sea level, Feb 1900, *A. Tonduz* 13538 [lectotype, designated by Seigler and Ebinger (1995): US, (B, destroyed), isotypes: BM, GH, K, NY, US].

✓*Acacia rossiana* Schenck, Repert. Spec. Nov. Regni Veg. 12: 361. 1913. – TYPE: MEXICO. VERACRUZ: Santa Lucrezia, Isthmus of Tehuantepec, 8 Oct 1906, *H. Ross* 918 [lectotype, designated by Seigler and Ebinger (1995): M, US photo].

✓*Acacia furcella* Saff., J. Wash. Acad. Sci. 4: 359. 1914. – TYPE: MEXICO. VERACRUZ: shore of Lake Catemaco, southern Veracruz, alt. 1,000 ft., 26 Apr 1894, *E. W. Nelson* 427 (holotype: US).

✓*Acacia hernandezii* Saff., J. Wash. Acad. Sci. 4: 358. 1914. – TYPE: MEXICO. SAN LUIS POTOSÍ: vicinity of Rascón, 19-22 Jul. 1905, *E. Palmer* 699 (holotype: US; isotypes: F, GH, NY).

✓*Acacia turgida* Saff., in W. M. Wheeler, Bull. Mus. Comp. Zoology Harvard Coll. 90: plate 45, 1942. – TYPE: (holotype: plate 45 in Wheeler 1942).

✓*Acacia cornigera* (L.) Willd. var. *americana* DC. Prodr. 2: 460. 1825. – TYPE: none cited.

VACHELLIA CUCUYO (Barneby & Zanoni) Seigler & Ebinger, comb. nov. Basionym: *Acacia cucuyo* Barneby & Zanoni, Moscosoa 5: 14. 1989. — TYPE: DOMINICAN REPUBLIC. AZUA: Sierra Martín García, Loma del Copey, approximately 3 km (by air) SW of Barrero, 18° 18'N, 70° 56'W, alt. 780 m, 23 Feb 1987, T. Zanoni, J. Pimentel, & R. García 38370 (holotype: JBSD; isotypes: FLAS, FTG, GH, K, MO, NY, S, TEX).

VACHELLIA CURVIFRUCTA (Burkart) Seigler & Ebinger, comb. nov. Basionym: *Acacia curvifructa* Burkart, Las Leguminosas Argentinas, 2nd ed., 97, 541, 1952. — TYPE: PARAGUAY. CHACO: Puerto Casado, Dec 1916, T. Rojas 2138 (holotype: SI).

VACHELLIA DAEMON (Ekman & Urb.) Seigler & Ebinger, comb. nov. Basionym: *Acacia daemon* Ekman & Urb., Symb. antill. 9: 438. 1928. *Feracacia daemon* (Ekman & Urb.) Britton & Rose N. Amer. Fl. 23: 86. 1928. — TYPE: CUBA. MATANZAS: prope Ceiba Mocha in cuabales ad Canasi versus locis valde sterilibus, 1 Mar 1924, E. L. Ekman 18591 (holotype: S; isotypes: A, F, G, HAC photo, ILL, K, NY, US).

VACHELLIA FARNESIANA (L.) Wight & Arn., Prodr. fl. Ind. orient. 272. 1834. *Mimosa farnesiana* L., Sp. pl. 521. 1753. *Acacia farnesiana* (L.) Willd., Sp. pl. 4: 1083. 1806. *Poponax farnesiana* (L.) Raf., Sylva tellur. 118. 1838. — TYPE: Aldinus, Exactissima descriptio rariorum plantarum Romae in Horto Franesiano: 2-7, 1625, which provides, under the name *Acacia Indica Farnesiana*, a detailed description and two illustrations of a plant in cultivation in the garden of Cardinal Farnese in Rome [lectotype, designated by Ross (1975)].

VACHELLIA FARNESIANA (L.) Wight & Arn. var. **FARNESIANA**

Acacia pedunculata Willd., Sp. pl. 4: 1084. 1806. *Mimosa pedunculata* (Willd.) Poir., in Lam. Encycl. Suppl. 1:81. 1810. *Acacia farnesiana* (L.) Willd. f. *pedunculata* (Willd.) Kuntze,

Revis. gen. pl. 3(2): 47. 1898. – TYPE: JAVA: (holotype: B-Willd.).

✓*Acacia acicularis* Humb. & Bonpl. ex Willd., Enum. pl. 1056. 1809. – TYPE: in America meridionali (holotype: B-Willd.).

✓*Acacia edulis* Humb. & Bonpl. ex Willd., Enum. pl. 1056. 1809. – TYPE: in America meridionali (holotype: B-Wildd.).

✓*Acacia ferox* M. Martens & Galeotti, Bull. Acad. Roy. Sci. Bruxelles 10: 314. 1843. – TYPE: MEXICO. OAXACA: se trouve abondamment dans les plaines d'Oaxaca, de Tlacolula et d'Etila, de 5,000 pieds, Fl. jaunes, H. Galeotti 3223 (holotype: BR; isotype: K). NOTE: For more information, see Rudd 1976-1982.

✓*Acacia lenticellata* F. Muell., J. Proc. Linn. Soc., Bot. 3: 147. 1859.

✓*Acacia farnesiana* (L.) Willd. var. *lenticellata* (F. Muell.) F. M. Bailey, Compr. Queensland Pl. 164. 1913. – TYPE: AUSTRALIA. NORTHERN TERRITORIES: McArthur River, F. Mueller 43 (Pedley 1979).

Acacia smallii Isely, Sida 3: 384. 1969. – TYPE: UNITED STATES. LOUISIANA: Lafourche Parish, along Bayou La Fourche near Cut-off, 16 Apr 1931 and Aug 1931, J. K. Small & E. J. Alexander s.n. (holotype: NY; isotypes: US, WIS).

Farnesia odora Gasp., Descr. nuov. gen. Leg. 1836. – TYPE: none cited [lectotype, designated here, plate of *Farnesia odora* in Gasparini (1836)].

Poponax venosa Britton in Britton and Killip, Ann. New York Acad. Sci. 35: 139. 1936. – TYPE: COLOMBIA. ANTIOQUIA: vicinity of Medellín, 20 Aug 1927, R. A. Toro 478 (holotype: NY).

Vachellia densiflora Alexander ex Small, Man. s. e. fl. 655, 1505. 1933. ✓*Acacia densiflora* (Alexander ex Small) Cory, Rhodora 38:

406. 1936. *Acacia minuta* (M. E. Jones) R. M. Beauch. subsp. *densiflora* (Alexander ex Small) R. M. Beauch., *Phytologia* 46: 7. 1980. — TYPE: UNITED STATES. LOUISIANA: Lafourche Parish, along Bayou La Fourche near Cut-off, 16 Apr 1931 and Aug 1931, J. K. Small & E. J. Alexander s.n. (holotype: NY; isotypes: US, WIS).

VACHELLIA FARNESIANA (L.) Wight & Arn. var. **MINUTA** (M. E. Jones) Seigler & Ebinger, **comb. et stat. nov.** Basionym: *Pithecellobium minutum* M. E. Jones, Contr. West Bot. 18: 38. 1933. *Acacia minuta* (M. E. Jones) R. M. Beauch., *Phytologia* 46: 5. 1980. *Acacia farnesiana* (L.) Willd. subsp. *minuta* (M. E. Jones) Ebinger & Seigler, Southw. Naturalist 47: 90. 2002. — TYPE: MEXICO. BAJA CALIFORNIA: Cacachilla Mts., 2 Oct 1930, M. E. Jones 27265 (holotype: POM-RSA).

VACHELLIA FARNESIANA (L.) Wight & Arn. var. **PINETORUM** (F. J. Herm.) Seigler & Ebinger, **comb. et stat. nov.** Basionym: *Acacia pinetorum* F. J. Herm., J. Wash. Acad. Sci. 38: 237. 1948. *Acacia farnesiana* subsp. *pinetorum* (F. J. Herm.) Ebinger and Seigler, Southw. Naturalist 47: 90. 2002. — TYPE: UNITED STATES. FLORIDA: Dade Co., hammocks, Long Key (Everglades), 18-26 Jan 1909, J. K. Small & J. J. Carter 2975; in pinelands, Long Key, 6-7 May 1903, J. K. Small & P. Wilson 1778 (syntypes: NY).

Vachellia insularis J. K. Small, Man. s. e. fl. 655, 1505. 1933. — TYPE: UNITED STATES. FLORIDA: Monroe Co., pinelands, Big Pine Key, 21 Mar 1915, J. K. Small & C. A. Mosier 6018; pinelands, Big Pine Key, 27 Feb 1911, J. K. Small, J. J. Carter & G. K. Small 3549 (syntypes: NY). NOTE: Not *Acacia insularis* A. Richard (1845), an herbaceous legume lacking stipular spines and prickles that is a synonym of *Neptunia pubescens* Benth. (Bässler 1998).

Vachellia peninsularis J. K. Small, Man. s. e. fl. 654, 1505. 1933. — TYPE: UNITED STATES. FLORIDA: Dade Co., hammocks,

Long Key (Everglades), 18-26 Jan 1909, J. K. Small & J. J. Carter 2975; in pinelands, Long Key, 6-7 May 1903, J. K. Small & P. Wilson 1778 (syntypes: NY). NOTE: Not *Senegalia peninsularis* Britton & Rose (1928), a species from Baja California, Mexico that has prickles and lacks stipular spines, nor *Acacia peninsularis* (Britton & Rose) Standley (1936).

VACHELLIA GENTLEI (Standl.) Seigler & Ebinger, **comb. nov.**

Basionym: *Acacia gentlei* Standl., Publ. Field Mus. Nat. Hist., Bot. Ser. 22: 77. 1940. – TYPE: BELIZE: *P. Gentle* 185 (holotype: F).

VACHELLIA X GLADIATA (Saff.) Seigler & Ebinger, **comb. nov.**

Basionym: *Acacia x gladiata* Saff., J. Wash. Acad. Sci. 5: 359. 1915. *Myrmecodendron gladiatum* (Saff.) Britton & Rose, N. Amer. Fl. 23: 92. 1928. – TYPE: MEXICO. SINALOA: vicinity of Rosario, 1849, J. Gregg 1135 (holotype: MO, F photo, NY photo, US fragment and photo).

VACHELLIA GLANDULIFERA (S. Watson) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia glandulifera* S. Watson, Proc. Amer. Acad. Arts 25: 147. 1890. *Poponax glandulifera* (S. Watson) Britton & Rose, N. Amer. Fl. 23: 88. 1928. – TYPE: MEXICO. COAHUILA: limestone hills, Carneros Pass, 7 Sep 1889, C. G. Pringle 2861 (holotype: GH; isotypes: F, NY, VT). NOTE: Not *Acacia glandulifera* Schinz (1900) which is considered a synonym of *Acacia nebrownii* Burtt Davy, a species with stipular spines from Africa (Ross 1979).

VACHELLIA GLOBULIFERA (Saff.) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia globulifera* Saff., J. Wash. Acad. Sci. 4: 360. 1914. *Myrmecodendron globulifera* (Saff.) Britton & Rose, N. Amer. Fl. 23: 93. 1928 – TYPE: MEXICO. YUCATÁN: at the port of Silam (Tzilam), N coast of Yucatán, Apr 1895, G. F. Gaumer 1909 (holotype: F, US fragment and photo; isotypes: GH, MO, NY, US).

Acacia donnelliana Saff., J. Wash. Acad. Sci. 4: 361. 1914.
Myrmecodendron donnelliana (Saff.) Britton & Rose, N. Amer. Fl. 23: 93. 1928 – TYPE: HONDURAS. SANTA BÁRBARA: San Pedro de Sula, Cortés, alt. 600 ft., Mar 1888, C. Thieme 5216 (holotype: US).

VACHELLIA GUANACASTENSIS (Clarke, Seigler & Ebinger) Seigler & Ebinger, **comb. et stat. nov.** Basionym: *Acacia farnesiana* (L.) Willd. var. *guanacastensis* Clarke, Seigler & Ebinger, Syst. Bot. 14: 562. 1989. *Acacia guanacastensis* (Clarke, Seigler & Ebinger) Ebinger & Seigler, Syst. Bot. 25: 610. 2000. – TYPE: COSTA RICA. GUANACASTE: Great Swamp, Comelco, near Bagaces, 11 May 1976, D. H. Janzen 10362 (holotype: MO; isotype: ILL).

VACHELLIA HINDSHI (Benth.) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia hindsii* Benth., London J. Bot. 1: 504. 1842. *Myrmecodendron hindsii* (Benth.) Britton & Rose, N. Amer. Fl. 23: 91. 1928. – TYPE: MEXICO. JALISCO: shore of Manzanilla Bay, sea level, 1841, R. B. Hinds 248 (holotype: K, F photo).

Acacia bursaria Schenck, Repert. Spec. Nov. Regni Veg. 12: 363. 1913. – TYPE: GUATEMALA. AMATITLÁN: Laguna Amatitlán, alt. 3,900 ft., Feb 1890, J. D. Smith 2304 [lectotype, designated by Seigler and Ebinger (1995): US (B, destroyed); isotypes: GH, K].

Acacia sinaloensis Saff., J. Wash. Acad. Sci. 4: 365. 1914. – TYPE: MEXICO. SINALOA: vicinity of Villa Unión, growing about a pond, 2 Apr 1910, J. N. Rose, P. C. Standley & P. G. Russell 13972 (holotype: US; isotype: NY).

Acacia tepicana Saff., J. Wash. Acad. Sci. 4: 366. 1914. – TYPE: MEXICO. NAYARIT: thickets, vicinity of Acoponeta, Tepic, alt. 30 m, 10 Apr 1910, J. N. Rose, P. C. Standley & P. G. Russell 14357 (holotype: US, F photo; isotype: NY).

VACHELLIA INSULAE-IACOBI (L. Riley) Seigler & Ebinger,
comb. nov. Basionym: *Acacia insulae-iacobi* L. Riley, Bull.
Misc. Inform. Kew 1925: 220. 1925. — TYPE: ECUADOR.
GALÁPAGOS: San Salvador (James Island), James Bay, in
ravine near seashore, 27 Jul 1924, C. Penny & L. A. M. Riley 391
(holotype: K).

VACHELLIA JANZENII (Ebinger & Seigler) Seigler & Ebinger,
comb. nov. Basionym: *Acacia janzenii* Ebinger & Seigler,
Southw. Naturalist 32: 245. 1987. — TYPE: MEXICO.
TABASCO: 9.8 miles W of Lázaro Cárdenas on hwy. 180, 17 Jun
1966, D. H. Janzen 515 (holotype: MO; isotypes: BM, CAS, F,
GH, MICH, MO, UC, US).

VACHELLIA MACRACANTHA (Humb. & Bonpl. ex Willd.)
Seigler & Ebinger, **comb. nov.** Basionym: *Acacia macracantha*
Humb. & Bonpl. ex Willd. Sp. pl. 4: 1080. 1806. *Poponax*
macracantha (Humb. & Bonpl. ex Willd.) Killip in Little,
Caribbean Forester 9: 241. 1948. *Mimosa macracantha* (Humb.
& Bonpl. ex Willd.) Poir. in Lam., Encycl. Suppl. 1: 78. 1810. —
TYPE: MEXICO. without exact locality, Humboldt & Bonpland
s.n. (holotype: B-Willd., GH photo; isotypes: NY, P). NOTE: In
response to the recent conservation of the type for *Acacia* with an
Australian species, the necessity to transfer species of the former
subgenus *Acacia* to the genus *Vachellia*, the fact that the name
Acacia macracantha Humb. & Bonpl. ex Willd. has been used for
this widespread species by most workers, because this name is
widely employed in floras of both Latin America and the United
States, and in order to contribute to nomenclatural stability, we
have made a proposal to conserve the name of Bentham (1852). If
accepted, the name for this taxon must become *Vachellia*
macracantha (Humb. & Bonpl. ex Willd.) Seigler & Ebinger.

Vachellia lutea (Mill.) Speg., Bol. Acad. Nac. Ci. Córdoba 26: 301.
1923. *Mimosa lutea* Mill., Gard. dict. ed. 8, 1768. *Acacia lutea*
(Mill.) Britton, Bull. Torrey Bot. Club 16: 327. 1889. *Poponax*

lutea (Mill.) Britton & Rose, N. Amer. Fl. 23: 90. 1928. – TYPE: JAMAICA. 1731, *W. Houstoun s.n.* (holotype: BM; isotype: K). NOTE: Not *Acacia lutea* Leavenworth (1824) which is a synonym of *Neptunaea lutea* (Leavenw.) Benth. (Correll and Johnston 1970).

Acacia flexuosa Humb. & Bonpl. ex Willd., Sp. pl. 4: 1082. 1806.
Mimosa flexuosa (Humb. & Bonpl. ex Willd.) Poir. in Lam., Encycl. Suppl. 1: 79. 1810. *Poponax flexuosa* (Humb. & Bonpl. ex Willd.) Britton & Rose in Britton & Killip, Ann. New York Acad. Sci. 35: 139. 1936. – TYPE: VENEZUELA. CUMANÁ: *Humboldt & Bonpland* 81 (holotype: B-Willd.; isotypes: HAL, P).

Acacia flexuosa Humb. & Bonpl. ex Willd. β *ambigua* DC., Prodr. 2: 463. 1825. – TYPE: GUADELOUPE. *C. G. Bertero s.n.* (holotype: G-DC).

Acacia flexuosa Humb. & Bonpl. ex Willd. β *lasiocarpa* Griseb., Abh. Königl. Ges. Wiss. Göttingen 7: 211. 1857. – TYPE: none cited, from Guadeloupe.

Acacia obtusa Humb. & Bonpl. ex Willd., Sp. pl. 4: 1087. 1806.
Mimosa obtusa (Humb. & Bonpl. ex Willd.) Poir. in Lam., Encycl. Suppl. 1: 82. 1810. – TYPE: VENEZUELA. ORINOCO: *Humboldt & Bonpland* s.n. (holotype: P-H.B.K.; isotype: B-Willd.).

Acacia punctata Humb. & Bonpl. ex Willd., Sp. pl. 4: 1084. 1806. – TYPE: in America meridionali, *Humboldt & Bonpland* 1162 (holotype: B-Willd.).

Acacia humboldtii Desv. in W. Ham., Prodr. Pl. Ind. Occid. 60. 1825. – TYPE: none cited, from Guyana.

Acacia macracanthoides Bertero ex DC., Prod. 2: 463. 1825.
Poponax macracanthoides (Bertero ex DC.) Britton & Rose, N. Amer. Fl. 23: 89. 1928. – TYPE: JAMAICA. *C.G.Bertero s.n.* (holotype: G-DC).

Acacia subinermis Bertero ex DC., Prodr. 2: 463. 1825. - TYPE: JAMAICA. C. G. Bertero s.n. (holotype; G-DC, MO photo).

Acacia microcephala Macfad., Fl. Jamaica 1: 316. 1837. - TYPE: JAMAICA. at bridge beyond the second milestone on the windward road, J. Macfadyen s.n. (holotype: K). NOTE: Not *Acacia microcephala* Richard (1845) which has prickles and is considered a synonym of *Acacia tenuifolia* (L.) Willd. by Howard (1988).

Acacia platyacantha Schltdl., Linnaea 12: 565. 1838. - TYPE: MEXICO. HIDALGO: Mineral del Monte, C. A. Ehrenberg s.n. (holotype: B destroyed).

Acacia pellacantha Vogel, Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur. 19. Suppl. 1: 45. 1843. - TYPE: PERU. Lima, Dombey, F. J. F. Meyen & Cuming, n. 1013. (holotype: not seen).

Acacia macracantha Humb. & Bonpl. ex Willd. var. *glabrescens* Griseb., Fl. Brit. W. I. 222. 1860. - TYPE: JAMAICA. in dry plains, Mar, J. Macfadyen s.n. (holotype: K).

Acacia macracantha Humb. & Bonpl. ex Willd. var. *glabra* Kitanov, Ann. Univ. Sofia Fac. Biol. 66(2): 31. 1974. - TYPE: CUBA. ORIENTE: sur de Guantánamo en Novaliches, 30 Jun 1936, Hno. León s.n.; Cuba, Prov. Oriente, Santiago de Cuba-Caney, bordes del mar en Arroyo de la Costa, 9 Sep 1951, M. López Figueiras s.n. (syntypes: SV).

Mimosa atomaria Poir. in Lam., Encycl. Suppl. 1:81. 1810. - TYPE: none cited.

Poponax cowellii Britton & Rose, N. Amer. Fl. 23: 89. 1928. *Acacia cowellii* (Britton & Rose) León in León & Alain, Contr. Ocas. Mus. Hist. Nat. Colegio "De La Salle" 9: 8. 1950. - TYPE: CUBA. ORIENTE: tree 5 m with spreading branches, hillside

thicket, vicinity of Santiago, 10-25 Mar 1912, N. L. Britton, E. G. Britton & J. F. Cowell 12593 (holotype: NY).

Poponax canescens Britton ex Britton & Killip, Ann. New York Acad. Sci. 35: 139. 1936. *Acacia canescens* (Britton ex Britton & Killip) García-Barriga & Forero-González, Cat. II. Pl. Cundinamarca 3: 19. 1968. – TYPE: COLOMBIA. CUNDINAMARCA: Anapoima, alt. 400 m, 1851-1857, J. Triana 4439 (holotype: NY). NOTE: Not *Acacia canescens* Martens & Galeotti (1843), a member of subgenus *Aculeiferum*.

VACHELLIA MAYANA (Lundell) Seigler & Ebinger, comb. nov.
Basionym: *Acacia mayana* Lundell, Publ. Carnegie Inst. Wash. 478: 210. 1937. – TYPE: GUATEMALA. EL PETÉN: near San Diego on the Rio Pasión, 10 Apr 1935, M. Aguilar H. 495 (holotype: MICH, isotypes: GH, NY, US).

VACHELLIA MELANOCERAS (Beurl.) Seigler & Ebinger, comb. nov.
Basionym: *Acacia melanoceras* Beurl., Kongl. Svenska Vetensk. Acad. Handl. 1854: 123. 1856. *Myrmecodendron melanoceras* (Beurl.) Britton & Rose, N. Amer. Fl. 23: 93. 1928. – TYPE: PANAMA. COLÓN: Portobello, sea level, Apr 1826, J. G. Billberg 289 [lectotype, designated by Seigler and Ebinger (1995): S, F photo, MO photo].

Acacia multiglandulosa Schenck, Repert. Spec. Nov. Regni Veg. 12: 362. 1913. – TYPE: PANAMA. COLÓN: Portobello, J. G. Billberg 1825 [lectotype, designated by Seigler and Ebinger (1995): US photo (B, destroyed)].

VACHELLIA OVIEDOENSIS (R. García & M. Mejía) Seigler & Ebinger, comb. nov. Basionym: *Acacia oviedoensis* R. García & M. Mejía, Moscosoa 11: 7. 2000. – TYPE: DOMINICAN REPUBLIC. PEDERNALES: 22 km al W de Oviedo, El Papayo, lado Sur de la Carretera Oviedo-Pedernales. Bosque seco sobre roca caliza con: *Guaiacum*, *Senna*, *Opuntia*, *Harrisia* and *Reynosia*. 17°51'N, 71° 31'W, elev. 140 m, 13 May 1997, R.

García & R. Pujols 6543 (holotype: JBSD; isotypes: B, F, MAPR, MO, NY, S).

VACHELLIA PACENSIS (Rudd & A. M. Carter) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia pacensis* Rudd & A. M. Carter, Madroño 30: 177. 1983. – TYPE: MEXICO. BAJA CALIFORNIA SUR: La Paz, 1 Nov 1890, T. S. Brandegee 190 (holotype: UC).

VACHELLIA PENNATULA (Schltdl. & Cham.) Seigler & Ebinger, **comb. nov.** Basionym: *Inga pennatula* Schltdl. & Cham., Linnaea 5: 593. 1830. *Acacia pennatula* (Schltdl. & Cham.) Benth., London J. Bot. 1: 390. 1842. *Poponax pennatula* (Schltdl. & Cham.) Britton & Rose, N. Amer. Fl. 23: 88. 1928. – TYPE: MEXICO. VERACRUZ: municipio de Xico, region of Jalapa, Hacienda de la Laguna, Aug. 1828, C. Schiede & F. Deppe s.n. (lectotype: HAL). NOTE: The sheet containing the type material is a mixture from Jalapa and from near Hacienda de la Laguna. Schlechtendal & Chamisso (1830) mention both in the original description and both are *Acacia pennatula*.

VACHELLIA PENNATULA (Schltdl. & Cham.) Seigler & Ebinger
var. **PENNATULA**

Acacia lanata M. Martens & Galeotti, Bull. Acad. Roy. Sci. Bruxelles 10: 315. 1843. – TYPE: MEXICO. OAXACA: Misteca Alta, Apr 1840, a 7-8,000 pieds, H. Galeotti 3231 (holotype: BR; isotypes: G, P). (Rudd 1976-1982).

Pithecellobium minutissimum M. E. Jones, Contr. W. Bot. 18: 38. 1933. – TYPE: MEXICO. JALISCO: Guadalajara, La Barranca, 25 Nov 1930, M. E. Jones 27266a (holotype: RSA-POM).

VACHELLIA PENNATULA (Schltdl. & Cham.) Seigler & Ebinger
var. **PARVICEPHALA** (Seigler & Ebinger) Seigler & Ebinger,
comb. et stat. nov. Basionym: *Acacia pennatula* (Schltdl. & Cham.) Benth. subsp. *parvicephala* Seigler and Ebinger, Syst. Bot.

13: 12. 1988. – TYPE: MEXICO. YUCATÁN: Chichén Itzá, in second growth, 6 Jun 1938, C. L. Lundell & Lundell 7418 (holotype: F; isotypes: LL, NY, TEX, US).

VACHELLIA POLYPYRIGENES (Greenm.) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia polypyrigenes* Greenm. in Combs, Trans. Acad. Sci. St. Louis 7: 419 and plate 33. 1897. *Poponax polypyrigenes* (Greenm.) Britton & Rose, N. Amer. Fl. 23: 89. 1928. – TYPE: CUBA. SANTA CLARA: District of Cienfuegos, not common, in open woods near long beach, near the entrance of the Bay of Cienfuegos, Faro Villa Nueva, E., 18 Sep 1895, R. Combs 602 (holotype: GH; isotypes: F, MO, NY, US).

Acacia cupeyensis León in León and Alain, Contr. Ocas. Mus. Hist. Nat. Colegio "De La Salle" 9: 8. 1950. – TYPE: CUBA. ORIENTE: Puerto Padre, playa de El Cupey, 24 Feb 1930, M. Curbelo 512 [holotype: HAC - Herb. J. Roig 5075 (Bässler 1998); isotype: NY].

Acacia curbeloi León in León and Alain, Contr. Ocas. Mus. Hist. Nat. Colegio "De La Salle" 10: 241. 1951. – TYPE: CUBA. ORIENTE: Puerto Padre, playa de El Cupey, 1929, M. Curbelo 60 [lectotype: HAC - Herb. J. Roig 5075 (Bässler 1998)].

VACHELLIA PRINGLEI (Rose) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia pringlei* Rose, Contr. U. S. Natl. Herb. 3: 316. 1895. *Acaciopsis pringlei* (Rose) Britton & Rose N. Amer. Fl. 23: 95. 1928. – TYPE: MEXICO. OAXACA: Tomellín Canyon, alt. 3000 ft. a tree 20-30 ft. high, 22 Dec 1894, C. G. Pringle 6113 (holotype: US; isotypes: CM, F, MO, UC).

Acacia unijuga Rose, Contr. U. S. Natl. Herb. 8: 32. 1903. *Acaciopsis unijuga* (Rose) Britton & Rose, N. Amer. Fl. 28: 95. 1928. – TYPE: MEXICO. SAN LUIS POTOSÍ: Las Palmas, lowlands, 9 Mar 1899, C. G. Pringle 6989 (holotype: US; isotypes: CM, F, LL, MO, UC).

Acacia conzattii Standl., Contr. U. S. Natl. Herb. 20: 186. 1919.

Acaciopsis conzattii (Standl.) Britton & Rose, N. Amer. Fl. 28: 95. 1928. – TYPE: MEXICO. OAXACA: Estación Almaloyas, alt. 700 m, Mar 1907, C. Conzatti 1756 (holotype: US).

Acaciopsis sesquijuga Britton & Rose, N. Amer. Fl. 28: 95. 1928.

Acacia sesquijuga (Britton & Rose) Standl., Field Mus. Nat. Hist. Bot. Ser. 3: 277. 1930. – TYPE: MEXICO. YUCATÁN: Silam, G. F. Gaumer 1307 (holotype: MO).

VACHELLIA RIGIDULA (Benth.) Seigler & Ebinger, **comb. nov.**

Basionym: *Acacia rigidula* Benth., London J. Bot. 1: 504. 1842.

Acaciopsis rigidula (Benth.) Britton & Rose, N. Amer. Fl. 23: 94. 1928. – TYPE: UNITED STATES. TEXAS: T. Drummond 161 (holotype: K).

VACHELLIA ROIGII (León) Seigler & Ebinger, **comb. nov.**

Basionym: *Acacia roigii* León in León and Alain, Contr. Ocas. Mus. Hist. Nat. Colegio "De La Salle" 9: 7. 1950. – TYPE: CUBA. LAS TUNAS: Puerto Padre, yanales de El Cupey, 28 Feb 1930, M. Curbelo 290 [holotype: HAC -Herb. J. Roig 5077 (Bässler 1998); isotype: HAC (Alvarez and Oliver 1991)].

VACHELLIA RORUDIANA (Christophersen) Seigler & Ebinger, **comb. nov.**

Basionym: *Acacia rorudiana* Christophersen, Nyt Mag. Naturvidensk. 70: 76. 1931. – TYPE: ECUADOR. GALÁPAGOS: Santa Cruz Island (Indefatigable), Academy Bay, the dry zone, Dec 1926, B. Rorud 12 (holotype: O).

Acacia tortuosa (L.) Willd. β *glabrior* Hook. f., Trans. Linn. Soc.

London 20: 229. 1847. – TYPE: ECUADOR. GALÁPAGOS: San Salvador (James Island), C. Darwin s.n. (holotype: K).

VACHELLIA RUDDIAE (D. H. Janzen) Seigler & Ebinger, **comb. nov.**

Basionym: *Acacia ruddiae* D. H. Janzen, Smithsonian Contr. Bot. 13: 34. 1974. – TYPE: COSTA RICA. LIMÓN: ferry landing, Moin River, Moin, 13 Feb 1965, D. H. Janzen 828

(holotype: US; isotypes: CAS, F, GH, MEXU, MICH, MO, NY, UC).

VACHELLIA SCHAFFNERI (S. Watson) Seigler & Ebinger, **comb. nov.** Basionym: *Pithecellobium schaffneri* S. Watson, Proc. Amer. Acad. Arts 17: 352. 1882. *Samanea schaffneri* (S. Watson) Macbr., Contr. Gray Herb. 59: 2. 1919. *Popanax schaffneri* (S. Watson) Britton & Rose, N. Amer. Fl. 23: 89. 1928. *Acacia schaffneri* (S. Watson) F. J. Herm., J. Wash. Acad. Sci. 38: 236. 1948. – TYPE: MEXICO. SAN LUIS POTOSÍ: in the mountains about San Luis Potosí, C. C. Parry & E. Palmer 219 [lectotype, designated by Rzedowski (1963): GH].

Acacia subtortuosa Shafer in Britton & Shafer, N. Amer. Trees, 524. 1908. – TYPE: MEXICO. DURANGO: near the city of Durango, Apr - Nov 1896, E. Palmer 11 (holotype: NY; isotypes: F, MO, UC).

VACHELLIA SCHOTTII (Torr.) Seigler & Ebinger. **comb. nov.** Basionym: *Acacia schottii* Torr. in Emory, Rep. U. S. Mex. Bound. Surv. 2: 62. 1858. *Acaciopsis schottii* (Torr.) Britton & Rose, N. Amer. Fl. 23: 96. 1928. – TYPE: UNITED STATES. TEXAS: Brewster Co., near the canon of San Carlos, at the Comanche Crossing of the Río Grande, Sep, C. C. Parry 330 (holotype: NY; isotype: GH).

VACHELLIA SPHAEROCEPHALA (Schltdl. & Cham.) Seigler & Ebinger, **comb. nov.** Basionym: *Acacia sphaerocephala* Schltdl. & Cham., Linnaea 5: 594. 1830. – TYPE: MEXICO. VERACRUZ: Actopán, sea level, Mar 1829. C. Schiede & F. Deppe 684 [lectotype, designated by Seigler and Ebinger (1995): HAL (B, destroyed), US fragment and photo].

Acacia veracruzensis Schenck, Repert. Spec. Nov. Regni Veg. 12: 362. 1913. – TYPE: MEXICO. VERACRUZ: sand dunes south of Veracruz, sea level, 13 Oct 1908, culta in hort. bot. Darmstadt., H. Schenck 916 [lectotype, designated by Seigler and Ebinger

(1995): M, (B, destroyed), US fragment and photo; isotypes: F, HAL].

Acacia dolichocephala Saff., J. Wash. Acad. Sci. 5: 355. 1915. – TYPE: MEXICO. VERACRUZ: along the shore north of the city of Veracruz, 24 Jan 1906, J. M. Greenman 87 (holotype: F; isotypes: GH, NY, US).

VACHELLIA X STANLEYI (Saff.) Seigler & Ebinger, comb. nov.

Basionym: *Acacia x standleyi* Saff., J. Wash. Acad. Sci. 4: 367. 1914. *Myrmecodendron standleyi* (Saff.) Britton & Rose, N. Amer. Fl. 23: 92. 1928. – TYPE: MEXICO. NAYARIT: along the river in the vicinity of Acaponeta, Territory of Tepic, W Mexico, 11 Apr 1910, J. N. Rose, P. C. Standley & P. G. Russell 14374 (holotype: US, F photo).

Acacia x hirtipes Saff., J. Wash. Acad. Sci. 4: 367. 1914. *Myrmecodendron hirtipes* (Saff.) Britton & Rose, N. Amer. Fl. 23: 92. 1918. – TYPE: GUATEMALA. SANTA ROSA: along the Río de las Cañas, 3,000 ft., Apr 1892, Heyde & Lux 3299b (holotype: US, NY photo).

Myrmecodendron oaxacanum Britton & Rose, N. Amer. Fl. 23: 92. 1928. – TYPE: MEXICO. OAXACA: Fonameca, alt. 110 m, 3 Jul 1925, E. Makrinius 488 (holotype: US).

VACHELLIA TORTUOSA (L.) Seigler & Ebinger, comb. nov.

Basionym: *Mimosa tortuosa* L., Syst. Nat., 10th ed., 2: 1312. 1759. *Acacia tortuosa* (L.) Willd. Sp. Pl. 4: 1083. 1806. *Poponax tortuosa* (L.) Raf., Sylva tellur. 118. 1838. – TYPE: JAMAICA. without exact locality, Patrick Brown(e) s.n. (holotype: LINN, microfiche).

Acacia virescens DC., Cat. pl. horti monsp. 74. 1813. – TYPE: probably South American, the species was described from a plant grown in the Botanical Garden in Montpellier. The seeds for this

plant were obtained from the Botanical Garden in Madrid. (holotype: G-DC, microfiche).

Acacia leucacantha Bertero, Spreng., Syst. veg. 3: 144. 1826. – TYPE: JAMAICA. *C. G. Bertero s.n.* [lectotype, designated by Ebinger et al. (2000): MO].

Acacia seifriziana León in León and Alain. Contr. Ocas. Mus. Hist. Nat. Colegio “De La Salle” 9: 8. 1950. – TYPE: CUBA. ORIENTE: low forest near Maisí, Jul 1938, *León and Seifriz 18351* (holotype: HAC). NOTE: We have not been able to examine the type, however, based on the description, it appears referable to *Acacia tortuosa*, a conclusion also advanced by Bässler (1998).

Mimosa salinarum Rohr ex Benth., Trans. Linn. Soc. London 30: 501. 1875. – TYPE: none cited.

VACHELLIA VERNICOSA (Britton & Rose) Seigler & Ebinger, comb. nov. Basionym: *Acaciopsis vernicosa* Britton & Rose, N. Amer. Fl. 23: 96. 1928. *Acacia vernicosa* Standl., Cont. U. S. Natl. Herb. 20: 187. 1919 (*nom. illeg.*). *Acacia constricta* Benth. var. *vernicosa* L. Benson, Amer. J. Bot. 30: 238. 1943. *Acacia neovernicosa* Isely, Sida 3:380. 1969. (based on the same type). – TYPE: MEXICO. CHIHUAHUA: in the vicinity of Santa Rosalía, alt. 1200 m, 13-15 Jun 1908, E. J. Palmer 385 (holotype: US; isotypes: GH, MO, NY). NOTE: Not *Acacia vernicosa* Fitzgerald (1904), an Australian species with phyllodes, presently considered a synonym of *Acacia incrassata* Hook. (Maslin 2001c).

VACHELLIA VILLAREGALIS (McVaugh) Seigler & Ebinger, comb. nov. Basionym: *Acacia villaregalis* McVaugh, Flora Novo-Galiciano 5: 141. 1983. – TYPE: MEXICO. JALISCO: Cima Cerro de Tequila, bosque de *Quercus* spp. y *Pinus* spp., alt. 2850 m, 17 Mar 1974, L. M. Villarreal 6171 (holotype: MICH).

VACHELLIA ZAPATENSIS (Urb. & Ekman) Seigler & Ebinger,
comb. nov. Basionym: *Acacia zapatensis* Urb. & Ekman, Ark.
Bot. 22a(8): 30. 1928. — TYPE: CUBA. MATANZAS: Zapata
Peninsula, in shrub forest towards Bahía de Cochinos, in open
places on limestone, 31 Jan 1924, E. L. Ekman 18358 (holotype:
B, destroyed; isotype: NY).

EXCLUDED NAMES

The following species have been considered to belong to former
subgenus *Acacia* by some authors:

Acacia amentacea DC., Prod. 2: 455. 1825., based on a Sessé and
Mociño drawing that is ambiguous (Lee et al. 1989). No type
specimen has been found and the quality of the drawing does not
permit conclusive identification of the plant depicted.

Acacia haematomma Bertero in DC., Prod. 2: 456. 1825. Examination
of the type specimen indicates that this is a *Calliandra* species
(Britton & Rose, 1928, Barneby, 1998).

Acacia peruviana Willd., Enum. pl. 1056. 1809. The type specimen
at P is not an *Acacia* as it has a single pair of pinnae and lacks
stipular spines and prickles.

The following names appear on specimens, but were never validly
published, to our knowledge:

Acacia leoni Marie-Victorin. -- Name appearing on the label of type
specimens of *Acacia bucheri*.

Vacheliopsis cubana -- Name on the label of the isotype of *Acacia*
cupeyensis (M.Curbelo 512) attributed to Britton & Wilson.

ACKNOWLEDGEMENTS

The authors thank several colleagues for advice concerning questions of nomenclature and general taxonomic advice. Among these are: J. Lee Crane, Bruce R. Maslin, Mario Sousa, Paul Wilson, Gordon Tucker, and James Zarucchi. The views and conclusions (and errors) in this manuscript are our own and do not necessarily reflect any of their judgements. We wish to acknowledge support by the National Science Foundation (NSF DEB 04-15803) and by the American Philosophical Society.

LITERATURE CITED

- Alvarez, A. C. and P.H. Oliver.** 1991. Catálogo de las Colecciones Históricos y de Tipos del Herbario de la Academia de Ciencias de Cuba. Editorial Academia, La Habana, Cuba.
- Aronson, J.** 1992. Evolutionary biology of *Acacia caven* (Leguminosae, Mimosoideae): infraspecific variation in fruit and seed character. Annals Missouri Botanical Garden 79: 958-968.
- Barneby, R.C.** 1992. Centennial beans: A miscellany of American Fabales. Brittonia 44: 224-239.
- Bässler, M.** 1998. Flora de la República de Cuba. Fasc. 2. Mimosaceae. Koeltz Scientific Books. Koenigstein, Germany.
- Britton, N. L. and J.N. Rose.** 1928. Mimosaceae. North American Flora. 23: 1-194.
- Chappill, J.A. and B.R. Maslin.** 1995. A phylogenetic assessment of the tribe Acacieae. pp. 77-99. In M. D. Crisp and J. J. Doyle (eds.). Advances in Legume Systematics 7: Phylogeny. Royal Botanic Garden, Kew, London.
- Cialdella, A. M.** 1984. El género *Acacia* (Leguminosae) en la Argentina. Darwiniana 25: 59-111.

- Clarke, H.D., S.R. Downie, and D.S. Seigler.** 2000. Implications of chloroplast DNA restriction site variation for systematics of *Acacia* (Fabaceae: Mimosoideae). *Systematic Botany*. 25: 618-632.
- Clarke, H.D., D.S. Seigler and J.E. Ebinger.** 1989. *Acacia farnesiana* (Fabaceae: Mimosoideae) and related species from Mexico, the southwestern U. S. and the Caribbean. *Syst. Bot.* 14: 549-564.
- Clarke, H.D., D.S. Seigler and J.E. Ebinger.** 1990. *Acacia constricta* (Fabaceae: Mimosoideae) and related species from the southwestern U.S. and Mexico. *American Journal of Botany* 77: 305-315.
- Clarke, H.D., J.E. Ebinger, and D.S. Seigler.** 2006. Taxonomic revision of the genus *Vachellia* (Fabaceae: Mimosoideae) in the West Indies. *Systematic Botany* (in review).
- Correll, D.S. and M.C. Johnston.** 1970. Manual of the vascular plants of Texas. Texas Research Foundation, Renner, Texas.
- Cowan, R.S. and B.R. Maslin.** 2001. *Acacia mexanoxylon*. In: A. E. Orchard and A. J. C. Wilson, eds., *Flora of Australia*. Volume 11B. Mimosaceae, *Acacia*, part 1. Melbourne: ABRS/CSIRO Publishing. pp. 140-141.
- DeCandolle, A.P.** 1825. *Prodromus systematis naturalis regni vegetabilis*. Paris.
- Don, G.** 1832. General history of the Dichlamydeous plants. Vol. II Calyciflorae. London. (*Acacia* pp. 401-423, 476)
- Ebinger, J.E., D.S. Seigler, and H.D. Clarke.** 2000. Taxonomic revision of South American species of the genus *Acacia* subgenus

Acacia (Fabaceae: Mimosoideae). Systematic Botany 25: 588-617.

Ebinger, J.E., D.S. Seigler, and H.D. Clarke. 2002. Notes on the segregates of *Acacia farnesiana* (L.) Willd. (Fabaceae: Mimosoideae and related species in North America. Southwestern Naturalist 47: 86-91.

Fitzgerald, W.V. 1904. Additions to the west Australian flora. Journal of the West Australian Natural History Society 2: 3-36.

Gasparrini, G. 1836. Descrizione di un nuova genere di plante della famiglia delle Leguminosae. Napoli. I-X, 1 pl.

Hoffmannsegg, J.C. 1826. Verzeichniss der Pflanzenkulturen. Nachtr. 3. Dresden.

Howard, R.A. 1988. Flora of the Lesser Antilles Leeward and Windward Islands. Dicotyledoneae – Part 1. Arnold Arboretum, Harvard University, Jamaica Plains, Massachusetts.

Janzen, D.H. 1974. Swollen-thorn acacias of Central America. Smithsonian Contributions to Botany 13:1-131.

Leavenworth, M.C. 1824. Notice of four new species collected in Alabama. The American Journal of Science and Arts 7: 61-63.

Lee, Y.S., D.S. Seigler and J.E. Ebinger. 1989. *Acacia rigidula* (Fabaceae) and related species in Mexico and Texas. Systematic Botany. 14: 91-100.

Luckow, M. J.T. Miller, D.J. Murphy, and T. Livshultz. 2003. A phylogenetic analysis of the Mimosoideae (Leguminosae) based on chloroplast DNA sequence data. pp. 1-24. in M. D. Crisp and J. J. Doyle (eds.). Advances in Legume Systematics 7: Phylogeny. Royal Botanic Garden, Kew, London.

- Macbride, J.F.** 1943. Flora of Peru. Field Museum of Natural History, Botanical Series 13(3-1): 74-83 (*Acacia*).
- Martens, M. and H. Galeotti.** 1843. *Enumeratio synoptica plantarum phanerogamicarum ab Henrico Galeotti in regionibus Mexicanis collectarum.* Bulletin Academic Science Bruxelles 10: 310. 302-321.
- Maslin, B.R.** 1988. Should *Acacia* be divided? Bulletin of the International Group for the Study of Mimosoideae 16: 54-76.
- Maslin, B.R.** 2001a. *Acacia falciformis*. In: A. E. Orchard and A. J. C. Wilson, eds., Flora of Australia. Volume 11A. Mimosaceae, *Acacia*, part 1. Melbourne: ABRS/CSIRO Publishing. pp. 250-251.
- Maslin, B.R.** 2001b. *Acacia sericocarpa*. In: A. E. Orchard and A. J. C. Wilson, eds., Flora of Australia. Volume 11A. Mimosaceae, *Acacia*, part 1. Melbourne: ABRS/CSIRO Publishing. pp. 581-582.
- Maslin, B.R.** 2001c. *Acacia incrassata*. In: A. E. Orchard and A. J. C. Wilson, eds., Flora of Australia. Volume 11A. Mimosaceae, *Acacia*, part 1. Melbourne: ABRS/CSIRO Publishing. Pp. 500-501.
- Maslin, B.R., J.T. Miller, and R.J. Bayer.** 2000. Molecular systematics of the tribe Acacieae (Leguminosae: Mimosoideae). pp. 181-200. in P. Herendeen and A. Bruneau (eds.). Advances in Legume Systematics 9: Phylogeny. Royal Botanic Garden, Kew, London.
- Maslin, B.R., J.T. Miller, and D.S. Seigler.** 2003. Overview of the generic status of *Acacia* (Leguminosae: Mimosoideae). Australian Systematic Botany 16: 1-18.

- Miller, J.T. and R.J. Bayer.** 2000. Molecular phylogenetics of *Acacia* (Fabaceae: Mimosoideae) based on the chloroplast *TRNK/MATK* and nuclear histone H3-D DNA sequences. pp. 181-200. in P. S. Herendeen and A. Bruneau (eds.). Advances in Legume Systematics. Royal Botanic Garden, Kew, London.
- Miller, J.T. and R.J. Bayer.** 2001. Molecular phylogenetics of *Acacia* (Fabaceae: Mimosoideae) based on chloroplast *matK* coding sequence and flanking *trnK* intron spacer regions. American Journal of Botany 88: 698-706.
- Miller, J.T. and R.J. Bayer.** 2003. Molecular phylogenetics of *Acacia* subgenus *Acacia* and *Acuiferum* (Fabaceae: Mimosoideae), based on chloroplast *matK* coding sequence and flanking *trnK* intron spacer regions. Australian Systematic Botany 16: 27-33.
- Miller, J.T., J.W. Grimes, D.J. Murphy, R.J. Bayer, and P.Y. Ladiges.** 2003. A phylogenetic analysis of the Acacieae and Ingeae (Mimosoideae: Fabaceae) based on *trnK*, *matK*, *psbA-trnH*, and *trnL/trnF* sequence data. Systematic Botany 28: 558-566.
- Murphy, D.J., J.T. Miller, R.J. Bayer, and P.Y. Ladiges.** 2003. Molecular phylogeny of *Acacia* subgenus *Phyllodineae* (Mimosoideae: Leguminosae) based on DNA sequences of the internal transcribed spacer region. Australian Systematic Botany 16: 19-26.
- Orchard, A.E. and B.R. Maslin.** 2003. Proposal to conserve the name *Acacia* (Leguminosae: Mimosoideae) with a conserved type. Taxon 52: 362-363.
- Pedley, L.** 1979. A revision of *Acacia* Mill. In Queensland. Austrobaileya 1 (3): 235-337.
- Richard, A.** 1845. Botanique-Plantes Vasculaires. in A.Bertrand (ed.). M. Ramón de la Sagra, Histoire Physique, Politique et Naturelle de l'Ile de Cuba, Paris.

- Rico-Arce, M. de L.** 1991. New species, combinations and synonyms for *Zygia*, *Cojoba*, *Marmaroxylon* and *Pithecellobium* (*Leguminosae*—*Mimosideae*, *Ingeae*). *Kew Bulletin* 46: 493-521.
- Rico-Arce, M. de L.** 2001. El género *Acacia* (*Leguminosae*, *Mimosoideae*) en el Estado de Oaxaca, Mexico. *Anales Jardín Botánico de Madrid* 58 (2): 251-302.
- Ross, J.H.** 1975. The typification of *Mimosa farnesiana*. *Bothalia* 11: 471-472.
- Ross, J.H.** 1979. A conspectus of the African acacia species. *Memoirs of the Botanical Survey of South Africa* 44:1-155.
- Rudd, V.E.** 1964. Nomenclatural problems in the *Acacia cornigera* complex. *Madroño* 17: 198-201.
- Rudd, V.E.** 1966. *Acacia cochliacantha* or *Acacia cymbispina* in Mexico? *Leaflets of Western Botany* 10: 257-262.
- Rudd, V.E.** 1976-1982. Identity of some Mexican *Acacia* and *Mimosa* described by Martens and Galeotti. *Anales del Instituto de Biología de la Universidad Nacional Autónoma de México. Serie Botánica* 47-53: 137-144.
- Rzedowski, J.** 1963. Nota sobre la tipificación de *Pithecellobium schaffneri* S. Wats. *Boletín de la Sociedad Botánica de México* 28: 19-21.
- Safford, W.E.** 1910. Bull-horn acacias in botanical literature, with a description of two new species. *Science N.S.* 31: 676-677.
- Schenck, H.** 1913. *Acacia myrmecophilae novae*. *Repertorium Specierum Novarum Regni Vegetabilis* 12: 360-363.

- Schinz, H.** 1900. Memoires de l'herbier Boissier suite au bulletin de l'herbier Boissier. Geneva. Nos. 1-22.
- Schlechtendal, D.F. L. von and L. A. von Chamisso.** 1830. Plantarum Mexicanarum a cel viris Schiede et Deppe collectarum. Linnaea 5: 554-625.
- Seigler, D.S. and J.E. Ebinger.** 1988. *Acacia macracantha*, *A. pennatula*, and *A. cochliacantha* (Fabaceae: Mimosoideae) species complexes in Mexico. Systematic Botany 13: 7-15.
- Seigler, D.S. and J.E. Ebinger.** 1995. Taxonomic revision of the ant-acacias (Fabaceae, Mimosoideae, *Acacia*, series Gummiferae) of the New World. Annals of the Missouri Botanical Garden 82: 117-138.
- Spix, J. B. von and C.F.P. von Martius.** 1828. Reise in Brasilien. München.
- Sprengel, C.** 1826. *Systema Vegetabilium*. Vol. III, 16th edition, Gottingae.
- Standley, P.C..** 1919. New Mimosaceae from Mexico. Contributions from the United States. National Herbarium. 20: 184-193.
- Standley, P.C.** 1936. Studies of American plants - VI. Field Musuem of Natural History, Botanical Series 11: 145-276.
- Turner, B. L. and G. L. Nesom.** 2000. Use of variety and subspecies and new varietal combinations for *Styrax platanifolius* (Styracaceae) Sida 19(2): 257-262.
- Vogel, T.** 1836. De plantis in expeditione speculatoria Romanzoffiana observatis disserere pergitur. Linnaea 10: 582-603.

Wheeler, W. 1942. Studies of neotropical ant-plants and their ants. Bulletin of the Museum of Comparative Zoology at Harvard College 90(1).

Wight, R. and G.A. W. Arnott. 1834. *Prodromus Florae Peninsulae Indiae Orientalis*. Parbury, Allen, & Co., London.